## Information Extraction (IE)

Computer-based analysis and visualization tools can assist in the interpretation of vast amounts of data, but the data must first be made accessible to those tools. The objective of Information Extraction (IE) technology is to provide computer software that automatically extracts and infers information from textual data sources and stores it into Extracted information varies across three levels of databases. complexity. Shallow Extraction refers to the extraction of simple types of information such as entities (the names of people, & lities, locations, etc.) numerical information (monetary values, percentages, etc.), and simple events. **Extracted Info** Intermediate Extraction extracts **Analysis &** inter-entity relationships (e.g., Person 2) Review works for Person 1) and more Situation **Data** complex event information. Eventual Analysis = Access research will progress to Deep Extraction, whereby information will be inferred, and complex relationships and traffic, open **Automated Ana** & Visualization **Tools** event scenarios will be recognized source, document xxtracts Structured Info (Entities, Relationships, etc.) Developing domain-portable IE **Events**) technology, capable of being customized Information Extraction for various applications across multiple domains, is an essential goal in order to

shorten development times and

reduce development costs.